S

USSR / Human and Animal Horphology (Normal and

Pathological). Arterio-Vascular

System. Vessels.

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 12326

dimensions. Thus, in neck fractures of the upper epiphysis of the femur, the blood supply of its head is restored through the V of the preserved synovial membrane and RL, first through V dilation and later also through an increase of their quantity. The presence of necrotic foci in the head testifies that the blood supply through the V of RL is not always sufficient.

Card 3/3

VICHTOMOVA, T.K., kand.med. nauk

Unusual case of adenomas of four endocrine glands. Probl. endokr. gormonoter. 9 no.4:105-107 Jl-Ag'63 (MIRA 17:1)

1. Iz patologoanatomicheskogo otdela (rukovoditel' - prof. A.V. Smol'yannikov) Nauchmo-issledovatel'skogo instituta skoroy pomoshchi imeni N.V. Sklifosovskogo (dir. - zasluzhennyy vrach RSFSR M.M.Tarasov, nauchmyy rukovoditel' chlen korrespondent ANN SSSR B.A.Petrov).

SUBOTSKIY, V.Ye., kand. med. nauk; VICHTOMOVA, T.K., kand. med. nauk; FIDRUS, Ye.I.

Primary retroperitoneal sclerosing fibrosis in the pathogenesis of diseases of the urinary organs. Urologiia no.6:49-52 N-D '63. (MIRA 17:9)

1. Iz Moskovskogo gorodskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel¹skogo instituta skoroy pomoshchi im. Sklifosovskogo (glavnyy khirurg-chlen-korrespondent AMN SSSR prof. B.A. Petrov).

BARSKAYA, T.A.; SYCHEVA, Z.F.; VICHURINA, G.A.

Effect of scil temperature on the development of internal brown spot in potatoes. Agrobiologiia no.6:893-897 N-D '63. (MIRA 17:2)

1. Institut biologii, Petrozavodsk.

ISAKOV, Yu.V., kand. med. nauk; VICHTOMOVA-OSIPENKOVA, T.K., ka.d. med. nauk

Drainage of the respiratory tract through trachecstomy in disorders of its patency in the lower sections. Trudy Inst. im. N.V. Sklif. 8:145-150 '63. (MIRA 18:6)

1. Institut skoroy pomoshchi imeni Sklifosovskogo, Moskva.

VICHTOMOVA-OSIPENKOVA, T.K., kand. med. nauk; BELYAYEV, N.S.

Closing the defects of the skull and the dura mater. Trudy Inst. im. N.V. Sklif. 8:154-157 '63. (MIRA 18:6)

1. Institut skoroy pomoshchi imeni Sklifosovskogo, Moskva.

VICHTOMOVA-OSIPENKOVA, T.K., kand. med. nauk

Analysis of lethal outcomes in fractures of the upper femoral epiphysis; based on data of the Sklifosovskii Institute of First Aid. Ortop., travm. i protez. 26 no.2:56-58 F '65. (MIRA 18:5)

1. Iz Moskovskogo instituta skoroy pomoshchi imeni Sklifosovskogo (dir. - zasluzhennyy vrach UkrSSR M.M.Tarasov) i Instituta rentgenologii i radiologii (dir. - prof. I.G.Lagunova), Moskva. Adres avtora: Moskva Zh-28, Solyanka, d.7, Institut rentgenologii i radiologii, Patomorfologicheskiy otdel.

VASIL'YEV, R.F.; VICHUTINSKI Nature of the relati	onship between chemiluminescence and oxidation
by molecular oxygen.	DOK1. AN 555N 212 (MIRA 15:1
1. Institut khimiche	skoy fiziki AN SSSR. Predstavleno akademikom
V.N.Kondrat yevym.	(Luminescence) (Oxygen)

40391

3/020/62/145/006/015/015 B101/B144

5,3300

AUTHORS:

Vasil'yev, R. F., and Vichutinskiy, A. A.

TITLE:

Application of chemiluminescence to measure the ratios of elementary reaction constants of hydrocarbon oxidation in

liquid phase

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 6, 1962, 1301-1304

TEXT: A former paper (DAN, 142, no. 2, 15 (1962)) showed that the chemiluminescence during initiated oxidation of hydrocarbons drops rapidly as soon as the oxygen reserves in the vessel are consumed. This effect is suggested for the measurement of $\frac{1}{2}$ and $\frac{1}{2}$ o. The following reactions

are indicated: chain initiation: rate w_1 (1); chain propagation: $R + O_2 \xrightarrow{k_2} RO_2$ (2); $RO_2 + RH \xrightarrow{k_3} ROOH + R'$ (3); chain termination: $R + R \xrightarrow{k_4} ROOH + R'$ (5); $RO_2 + RO_2 \xrightarrow{k_5} TP + O_2$ (6).

If (4) and (5) are negligible, $t_{dr} = [O_2]_0/w_{O_2}$ holds for the moment t_{dr} (6).

S/020/62/145/006/015/015 B101/B144

Application of chemiluminescence...

of the luminescence drop. From G. Russell's equation for w_{0_2} (J. Am. Chem. Soc., 79, 3871 (1957)) the following function is derived: $1/t_{\rm dr} = (k_3/\sqrt{k_6})(\sqrt{w_i}/[0_2]_0)$ (RH) + $w_i/2[0_2]_0$ (9). This equation gave values for the 0_2 content three times as high as those obtained experimentally during the oxidation of ethyl benzene or cumene initiated by α, α' -azo-bis-isobutyro nitrile, and values for the k_3/k_6 ratio correspondingly only 1/3 as high. The last term of the right-hand side of Eq. (9) is corrected into $3w_i/2[0_2]_0$ allowing for the reactions of the primary radical r_0 of the initiator: $w_i \rightarrow r_0$; $r_0 + 0_2 \rightarrow r_0 0_2$; $r_0 0_2 + RH \rightarrow r_0 00H + R$. The values obtained from this equation are consistent with F. Russell's and other data published for $k_3/\sqrt{k_6}$ and 0_2 . $[0_2]_0 = w_i t_{\rm dr}$ holds for RH] = 0. $k_3/\sqrt{k_6}$ for-n-heptane and n-decane was so small that the experimental values in the diagram $1/t_{\rm dr}$ versus [RH] were on a straight line parallel to the abscissa. The determination of the

S/020/62/145/006/015/015 B101/B144

Application of chemiluminescence...

oxidation rate by measurement of t_{dr} is suitable for those cases where it is difficult to measure p_{0} (viscous solvents, gas formation, high vapor

pressure of reagents). At low temperatures and concentrations, this method is also applicable if the luminescence is intensified by activators. As the oxidation slows down toward the end of the reaction, the values obtained by means of chemiluminescence are too low by 40.5 - 1.5%. There are 2 figures and 2 tables.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute

of Chemical Physics of the Academy of Sciences USSR)

PRESENTED: February 28, 1962, by V. N. Kondrat'yev, Academician

SUBMITTED: February 21, 1962

Card 3/3

40045 s/076/62/036/008/006/011

5,5300

Vasil'yev, R. F., and Vichutinskiy, A. A.

AUTHORS:

TITLE:

Intensification of chemiluminescence by luminescent admixtures

B101/B144

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 8, 1962, 1799 - 1800

TEXT: The intensification of chemiluminescence from benzene + $5.9 \cdot 10^{-2}$ moles/1 α , α '-azo-bis-isobutyronitrile (I) at 70°C by admixture of 9,10-diphenyl anthracene (II) (10-5 moles/liter), anthraquinone (III)

(2.10⁻³ moles/liter), chlorophyll, or ethyl benzene (0.4 moles/liter) was investigated. Results; (1) With exclusion of air, the weak chemi-

luminescence of O2-saturated I ceases after about 280 sec owing to complete

consumption of the 0_2 . (2) Admixture of II increases the intensity of

chemiluminescence from I by 15-20 times, admixture of III threefold. Extinction again occurs after about 280 sec. The same was observed when chlorophyll was admixed. The effect is explained by transfer of energy from the reaction products to the admixture molecules. The more likely this energy transfer, the stronger the increase of chemiluminescence Card 1/2

S/076/62/036/008/006/011
Intensification of chemiluminescence... B101/B144

intensity. (3) Ethyl benzene intensifies chemiluminescence so that extinction occurs after about 170 sec. Oxidation is accelerated, and molecules of a different type are recombined: $RO_2 + R_1H \rightarrow RO_2H + R_1$; $R_1 + O_2 \rightarrow R_1O_2$. This sensibilization of chemiluminescence by admixing substances of good luminescence permits studies to be made at lower temperatures and concentrations, thus extending the use of the methods suggested (Dokl. AN SSSR, 142, 615, 1962; ibid., 144, 1962) for investigating the kinetics of oxidation in the liquid phase. There is

ASSOCIATION: Akademiya nauk SSSR, Institut khimicheskoy fiziki (Academy

of Sciences USSR, Institute of Chemical Physics)

SUBMITTED: December 23, 1961

Card 2/2

1 figure.

s/020/63/149/001/016/023 B101/B144

AUTHORS:

Vasil'yev, R. F., Vichutinskiy, A. A., Cherkasov, A. S.

Chemiluminescence activated by anthracene derivatives

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 1, 1963, 124-127 TEXT: Luminescence spectra were used for studying how the oxidation of

cyclonexane dissolved in benzene, or that of ethyl benzene by anthracene or its derivatives, is activated after having been initiated with α,α' bis-isobutyric nitrile. The chemiluminescence spectrum of the oxidizing cyclohexane shows a slightly marked 430 - 450 mm band. Addition of the activator changes the spectrum so as to make it identical with the fluorescence spectrum. Thus the reaction energy is transferred to the activator which is put into the excited singlet state. The effect of the anthracene derivatives is identical in the oxidation of cyclohexane and ethyl benzene. Bromo anthracene, dibromo anthracene, bromo-phenyl anthracene, dichloro anthracene and diphenyl anthracene are good activators. Anthracene, di-n-propyl anthracene and dimethyl anthracene are bad activators. The following ratios $k_{\rm PA}/f_{\rm p}$ (1/mole) are given, where $k_{\rm PA}$ is

CIA-RDP86-00513R001859710012-7" APPROVED FOR RELEASE: 09/01/2001

Chemiluminescence activated by ...

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the probability of energy transfer and f_p is the probability of emissions dibromo anthracene 6·10, bromo-phenyl anthracene 2·10, dichloro anthracene 2·10, bromo anthracene 2·10, and diphenyl anthracene 1·10. The intensification factor, κ , is described by: $(\kappa-1)^{-1}=b+c[A]^{-1}$, where [A] is the concentration of the activator. The low yield of chemiluminescence is connected with the low yield of excited product, but it is mainly due to the low effectiveness of excitation. From the fact that the activity of the anthracene derivatives increases with increasing content of halogen atoms and with the atomic number of the halogen, a triplet-singlet transfer is assumed. There are 4 figures and 1 table.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

PRESENTED: October 1, 1962, by V. N. Kondrat'yev, Academician

SUBMITTED: September 24, 1962

Card 2/2

VASIL'YEV, R.F.; VICHUTINSKIY, A.A.; KARPUKHIN, O.N.; SHLYAPINTOKH, V.Ya.

Chemiluminescence in slow chemical reactions. Part 2: Effect of the chemical composition of the system on chemiluminescence intensity. Kin. i kat. 4 no.3:382-387 My-Je 163. (MIRA 16:7)

1. Institut khimicheskoy fiziki AN SSSR.
(Laminescence) (Chemical reaction, Rate of)

EPR/EWP(1)/EPF(c)/EWT(1)/EWT(m)/BDS-AFFTC/ASD-Pg-li/Pc-li/Pr-li-

1 9866-63 RM/WW/MAY/JFW/IJP(C)

s/0048/63/027/006/0729/0734

ACCESSION NR: AP3001345

AUTHOR: Vasil'yev, R. F.; Vichutinskiy, A. A.

TITLE: Investigation of chemiluminescence incident to oxidation reactions in the liquid phase [Report of the Eleventh Conference on Luminescence held in Minsk from 10-15 September 1962]

SOURCE: AN SSSR. Izv. Seriya fizicheskaya, v. 27, no. 6, 1963, 729-734

TOPIC TAGS: chemiluminescence, oxidation reactions, organic luminophors

ABSTRACT: Chemiluminescence, defined as emission of radiation accompanying chemical reactions, was formerly thought to be a rare phenomenon peculiar to very fast reactions (flames) and exceptional exothermic liquid-phase reactions. Studies carried out since 1958 at the Institute of Chemical Physics, Academy of Sciences SSSR, have shown, however, that chemiluminescence is far more common than was assumed and occurs incident to many reactions, including industrially important ones like polycondensation (production of mylon), decomposition of peroxides and oxidation of hydrocarbons. Accordingly, research has been

Card 1/3

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ACCESSION NR: AP3001348

3

continued at the Institute, aimed at elucidating the mechanism, characteristics and potentialities of chemiluminescence. The present experiments were concerned mainly with hydrocarbon oxidation reactions in the liquid phase, which are chain radical reactions; the accompanying luminescence is excited incident to recombination of the "oxidized" radicals. The chemiluminescence spectra were observed by means of a highly sensitive set-up, incorporating a grating observed by means of a highly sensitive set-up, incorporating a grating monochromator and a selected and cooled photomultiplier. In addition to primary chemiluminescence, secondary effects were investigated. It was found that the chemiluminescence accompanying oxidation of methylethylketone/is quenched by excess oxygen and by phonol (an oxidation inhibitor); chemiluminescence is stimulated by the introduction into the solution of various luminescent substances: anthracene, derivatives of oxazole, pyrazole, chlorophyll and anthraquinone. The stimulation is due to energy transfer rather than acceleration of the reaction rate. In general, however, there is observed direct correlation between the chemiluminescence intensity and the reaction rate. It is suggested that chemiluminescence may be a useful means for investigating the luminescence properties of molecules, for the excitation occurs unifformly over the entire volume, involves small amounts of energy and is not subject to intercombinational forbiddenness. Orig. art. has: 6 figures.

Card 2/3

L 9866-63

ACCESSION NR: AP3001348

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of

Chemical Physics, Academy of Sciences, SSSR)

SUBMITTED: OC

DATE ACQ: 01Jul63

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OTHER: 005

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Pc-4/Pr-4 WW/RM/JFW EWP(1)/EPF(c)/EWT(1)/EWT(m)/BDS AFFTC/ASD L 12717-63 5/0062/63/000/006/1143/1143 ACCESSION NR: AP3002301 AUTHOR: Emanuel', N. M.; Kruglyakova, K. Ye.; Vichutinskiy, A. A.; Vasil'yev R. F. TITLE: Chemiluminescence of solutions of desoxyribonucleic acid (DRNA) after irradiation with x-rays Izv. Otdeleniye khimicheskikh nauk, no. 6, 1963, 1143 SOURCE: AN SSSR. TOPIC TAGS: chemiluminescence, desoxyribonucleic acid (DRNA), x-rays, irradiation, peroxides, recombination of radicals ABSTRACT: A low intensity chemiluminescence has been discovered following irradiation of DRNA solution. The intensity falls expenentially with time. It was shown chemically that the peroxides arising from irraliation of DRNA decompose according to the same law at approximately the same rate. The chemiluminescence may arise from recombination of radicals formed from per mides produced in the irradiation. ASSOCIATION: Institut khimicheskoy fiziki Akadomii nauk SSSR (Institute of Chemical Physics, Academy of Sciences SSSR) DATE ACQ: 16 Jul 63 NO REF SOV: 004 ENCL: 00 OTHER: 000 SUBMITTED: 25 Feb.63 SUB CODE : 00 Card 1/1

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ABSTRACT: T	The purpose of this investig	gation was to determine the nature of the le accompanying radical reactions in the left wind reactions were studied

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Several new methods were suggested and tested in this paper for the quantitative study of exidation reactions. The constraint are cause to make principle of an interior of explained using extration are an even. The secretary were then exercise the $\frac{1}{2}$ and $\frac{1}$

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VICHUTINSKIY, A.A.

Chemiluminescent methods for determining the absolute rate constant of the rupture of peroxide radicals in the liquid phase. Dokl. AN SSSR 157 no.1:150-153 Jl '64 (MIRA 17:8)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V.N. Kondrat'yevym.

ACCESSION NR: AP4034584

8/0076/64/038/004/0983/0985

AUTHORS: Vichutinskiy, A.A.; Prokof'yev, A.I.; Shabalkin, V.A.

TITLE: Application of the EPR method for investigation of free radicals formed by thermal decomposition of the dimitrile of a a odiisobutyric acid

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 4, 1964, 983-985

TOPIO TAGS: EPR method, azodiisobutyrronitrile, free radical formation, thermal decomposition, cyanoisopropyl radical, EPR spectrum, recombination constant, termination constant

ABSTRACT: The EPR spectrum of the cyanoisopropyl radical, formed by thermal decomposition of the dinitrile of &, & -azodiisobutyric acid, was identified (fig. 1). It was found about 70% of the density of the unpaired electrons is on the tertiary carbon atom in the cyanoisopropyl radical and the remainder of the electron density is localized near the nitrogen atom, confirming the possibility of the existence of the radical in the mesomeric form:

Card 1/3

ACCESSION NR: AP4034584

1.2

$$CH_{\bullet} C - C \equiv N \rightleftarrows_{CH_{\bullet}} C = C = N.$$

The experiments were carried out on the radiospectrometer EPR-21KhF; the samples were heated to the required temperature in ampoules in the reconator by a hot air current. It was found possible to work with these unstable radical under nonstationary temperature conditions. The free radical cencentration [R] and initiation rate (w_1) were measured; the recombination constant k was calculated: $k(t) = \max_1(t)/[R(t)]^2$. The termination constant is about 2 x 10^2 liter/mol. sec. Orig. art. has: 5 equations, 2 formulae and 2 figures.

ASSOCIATION: Akademii nauk SSSR (Academy of Sciences SSSR); Institut khimicheskoy fiziki (Institute of Chemical Physics)

SUBMITTED: 11 Apr63

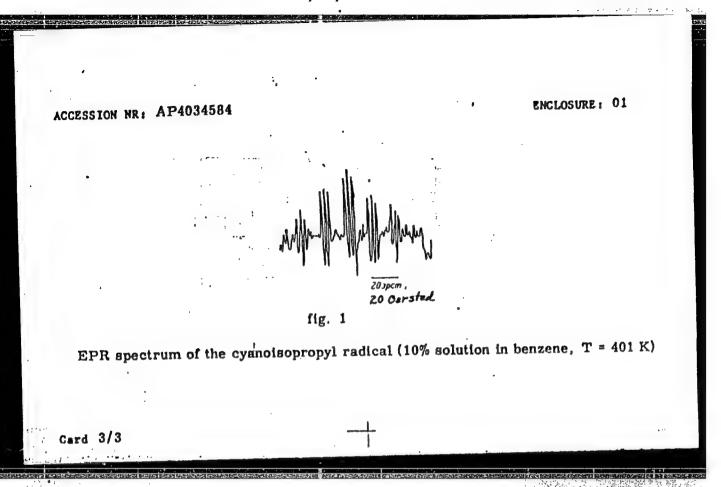
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OTHER: 002

Card 2/3



1 2131-65 THE BOOK OF THE PROPERTY OF TH 1 . 7: ACCILIZION HIL AFFAITE 8/0076/64/035/006/1664/16**72** AUTHOR: Vicnutinskiy, A. A. TITLE: The use of themilusinescence in the study of some exidation initiators. SCORE - Om mai tiri besky somit. The control of the car, the info TOPIC TAGS: luminescence, chemiluminescence, sinetics, nymen, free redital. disarroxylic acid, intenso, here are, scheduly, exclation in trater ABSTRACT: The purpose of this work was to apply the method taked on the oxygon FREE CLASSIC CONTRACTOR CONTRACTOR 1 to the second the ratio $K_{\xi}=\sqrt{k}$ is large in the ratio of the following ratio of the fraction of said and the independence of saidsting fraction to the finite of a same than the fraction of the fract ωβν •3.3 . waiture, of the order of wild become .. The topestigated meantime constitute Cord 1/2

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AUTHOR: Vichutinskiy, A. A.

TITLE: Application of chemiluminescence for determining the relative activity of oxidation inhibitors at

SOURCE: Zhurnal fizicheskoy khimil, v. 38, no. 9, 1964, 2296-2298

TOPIC TAGS: oxidation inhibitor, activity, relative activity, activity determination, chemiluminescence, ionol, alpha naphthol, beta naphthol, equipment,

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Card 1/3

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ALLABUTAYEV, K.A.; VASIL'YEV, R.F.; VICHUTINSKIY, A.A.; RUSINA, I.F.

Mechanism of chemiluminescence of oxidation reactions in solutions. Trudy MOIP. Otd. biol. 21:8-18 '65. (MIRA 18:6)

FMANUEL', N.M.; KRUGLYAKOVA, K.Ye.; ZHIZHINA, G.P.; VICHUTINSKIY, A.A.;
VASIL'YFV, R.F.

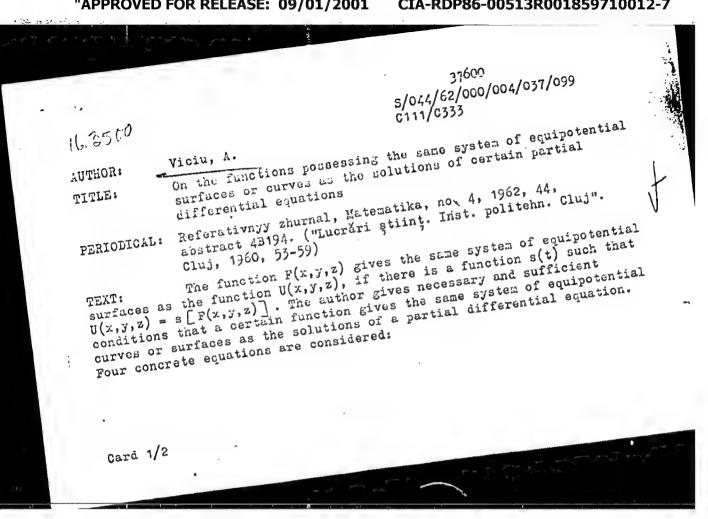
Chemiluminescence of DNA solutions following X-ray irradiation.
Trudy MOIP. Otd. biol. 21:119-121 '65. (MIRA 18:6)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859710012-7"

VICIC, D.; BABRENOVIC, B.

Demagnetizers. p. 1416. Vol. 9, No. 9, 1954. TEHNIKA. Beograd, Yugoslavia.

SOURCE: East European Accessions List, (ERAL) Library of Congress, Vol. 5, No. 8, August, 1956.



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On the functions possessing the same ... \$\, \text{S/044/62/0C0/004/037/039} \, \text{C111/0333}

$$\frac{\partial^2 U}{\partial x^2} + \frac{\partial^2 U}{\partial y^3} + \frac{a^3 - 1}{a} \frac{\partial^2 U}{\partial x \partial y} = 0,$$

$$\frac{\partial^3 U}{\partial x^3} + \frac{\partial^3 U}{\partial y^3} - 3 \frac{\partial^3 U}{\partial x^3 \partial y} - 3 \frac{\partial^3 U}{\partial x \partial y^3} = 0,$$

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$$\sum_{l=1}^4 \frac{\partial^3 U}{\partial x_l^4} + 8 \frac{\partial^3 U}{\partial x_1 \partial x_3 \partial x_3 \partial x_4} - 2 \sum_{l\neq l} \frac{\partial^3 U}{\partial x_l^2 \partial x_l^2} = 0$$

Abstracter's note: Complete translation.

Card 2/2

VICIU, R.,; POPESCU, M.,; DORIN, E.,; BERCHANU, St.,; BELCHITA, A.,;

Study of blood protein disorders in rheumatismal endocarditis and endocarditis lenta; their pathogenetic and clinical significance. Probl. reumat., Bucur. Vol. II.:291-220 1954.

(BLOOD PROTRINS

disord. in rheum. endocarditis & endocarditis lenta)
(ENDOCARDITIS, SUBACUTE BACTERIAL, etiol. & pathogen.
blood protein disord.)
(RHEUMATIC HEART DISEASE, etiol. & pathogen.
blood protein disord.)

VICIU. Emil.; ARSENESCU, Gh.,; MUSTATA, N.,; VOICULESCU. A.

Electrophysiological explanation of the phenomenon of partial contractions on isolated fibers and the intact heart; its experimental reproduction. Probl. card., Bucur. Vol. 1: I23-166 1955.

(HEART, physiology
electrophysiol. of contractions of isolated fibers &
intact heart of frog)
(ARRHYTHMIA, experimental
gallop rhythm, prod. in isolated frog heart)

VICIU, Emil.,; ARSENESCU, Gh.

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(BLECTROCARDIOGRAPHY
electrophysical, hypotheses)
(HEART, physiology
electrophysical, ECG)

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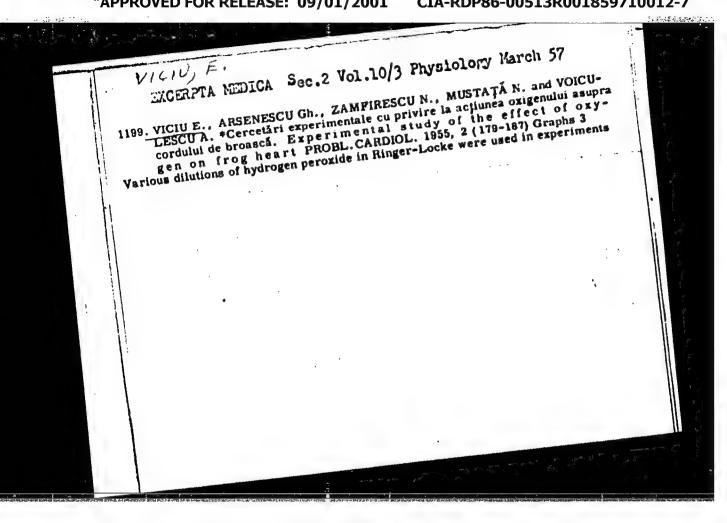
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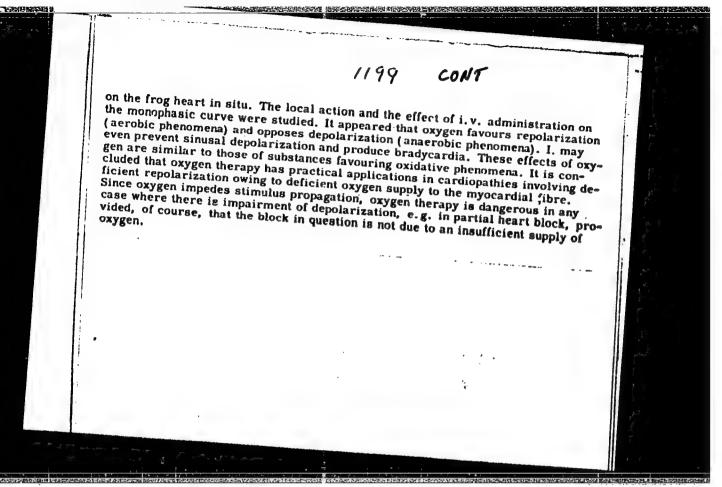
(MYCCARDIAL IMPARCT, physiology electrophysiol., vector cardiography) (VECTORCARDIOGRAPHY, in various diseases myocardial infarct)

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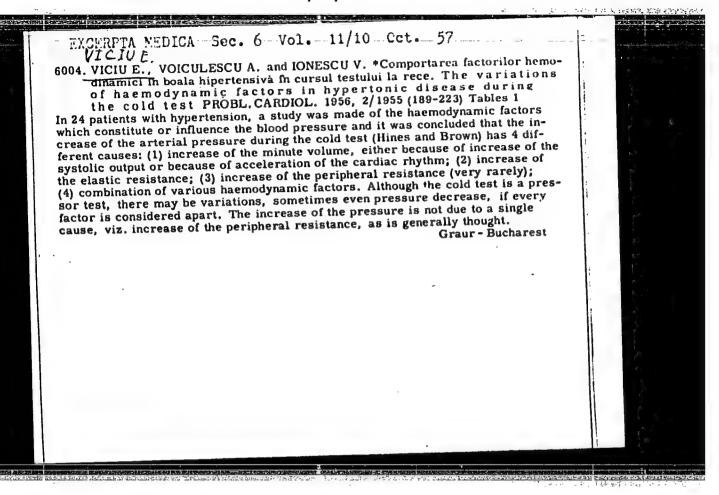
(MYCCARDIAL INFARCT, physiology electrophysiol., vector cardiography) (VMCTORCARDIOGRAPHY, in various diseases myocardial infarct)





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(ENDOCARDITIS, complications
nephritis, clin. & pathogenic aspects)

(NEPHRITIS, eticlogy & pathogenesis
endocarditis, clin. & pathogenic aspects)

FA MEDICA Sec. 6 Vol. 11/8 Aug. 57 VICIU F 4612. VICIU E. "Cauzele inexpresivității electrocardiografice a unor anghine pectorale si infarcte miocardice. The insufficiency of ECG evidence in certain forms of angina pectoris and myo-cardial infarction PROBL. CARDIOL. 1956, 2 (97-140) Illus. 2 A description is given of the ECG modifications in attacks of angina pectoris and in myocardial infarction, and the electro-physiological interpretation of these modifications is discussed. Reference is then made to the lack of signs of infaretion in some leads and of insufficiency in all the leads. The absence of ECG signs may have a technical cause: recording of a too small number of leads, or the too small size of the zones of ischaemia or of infarction, localization not favourable for ECG recording, multiple lesions, associated branch block, atrioventricular block, or ventricular hypertrophy. A discussion is presented of cases where there were ECG signs of infarction without anatomical evidence of this condition. This can be explained by invoking a reflex, of predominantly vagal or sympathetic nature, which may produce a monophasic curve in the absence of a lesion; the phenomenon of cellular response may also possibly be involved. Graur - Buchares:

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(ELECTROCARDIOGRAPH)

theory of differ. construction of electrocardiogram)

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(ELECTROCARDIOGRAPHY, experimental

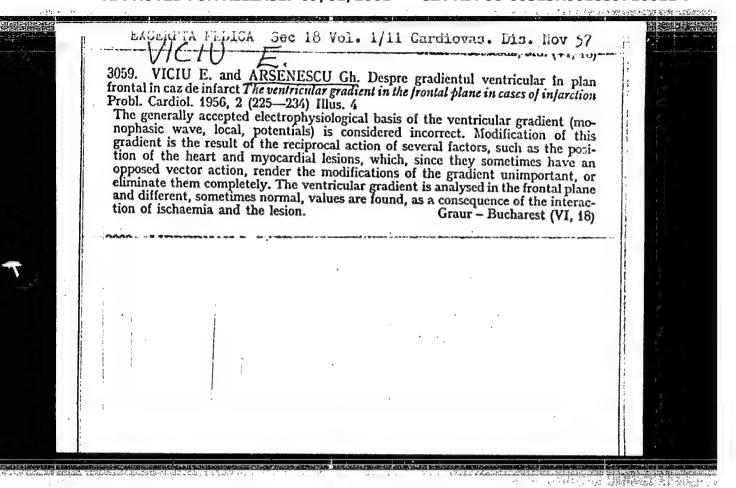
eff. of intravenous inject. of oxygenated fluid, in frogs.)

(OXYGEN, effects

on electrophysical, of frog heart in situ, admin., intravenous inject. of oxygenated fluid.

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VICIU, E.; VOICULESCU, A.; IONESCU, V.



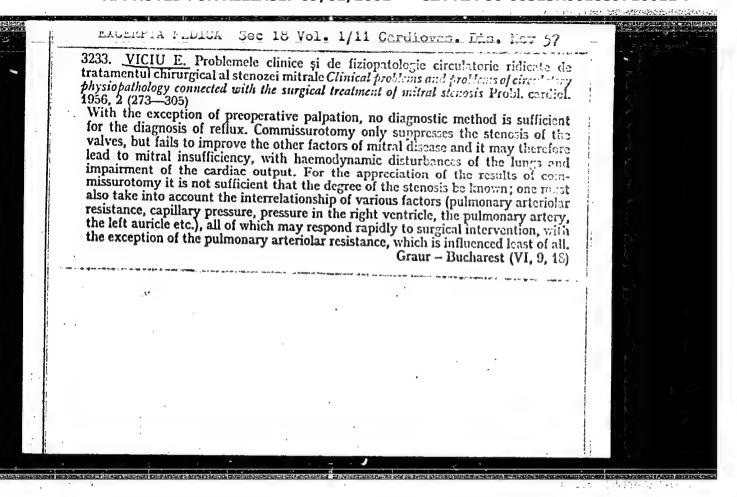
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(HYPERTENSION, physiology
increase & decrease of extracellular fluid in various
types of patients)

(BODY FLUIDS
extracellular fluid increase & decrease in hypertension)



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(LIVER CIRRHOSIS complications) (ASCITES complications)
(CARDIOVASCULAR DISEASES)

化生物 法经营的政治主义的

VICIU, E., dr.; DULGHERU, Carrott, dr.; USW. W., L.; CHISA , Aurella, chim.; GANE, Nadia, chim.; BUlling, C., chim.

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(LIVER FUNCTION TESTS) (BLOOD PROTEINS chemistry)

(TRANSAMINASES blood) (AMMONIA blood)

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VOPATOVA, M., MD; VICKOVA, M., MD.

Institute of Haematology and Blood Transfusion (Ustav hematologie a krevni transfuze), Prague (for both)

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Uncl.

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1. Katedra biologie lekarske fakulty University Palackeho v Olomouci.

(MICROSPORUM) (SOIL microbiol)

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VICOL, C., ing.; DODU, A. ing.

New equipment in worsted spinning mills and their influence on the yarn quality. Ind text Rum 15 no. 1: 16-23 Ja 164.

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1. Center of Biologic Research, Rumanian Academy, Cluj Branch.

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VICCL, P.

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Monthly list of Eastern European Accession Index (EEAI) IC vol. 8, No. 11 November 1959 Uncl.

7006/60/008/005/001/001 A231/A126

Vicol, Pavel, and Lazaresou, Stelina, Engineers

TITLE:

Underground electric conductors of very high voltage. Construction of the first 110-kv underground conductor in the capital

PERIODICAL:

Energetica, v. 8, /no. 5, 1960, 193 - 206

The article deals with very high-voltage underground electric cables used for the transmission/ of electric power in cities, and with the laying of the first very-high-voltage cable in Bucharest. The authors first present some general considerations on the characteristics of cables, i. e. insulation, shielding, phenomena of high voltages, dielectric losses, thermal stability of the cables, ionizing phenomena, thermal dilatation difference between the insulating mass and the Pb shearth, the use of high pressure in cables of very highvoltage cables, and the particularities of the laying technology, cables with external gas pressure, as well as termination boxes and junction boxes. The first 110-kv underground cable of Bucharest has been laid by the Intreprinderea nr l a Trustului de Constrcții și Montaje Energetice (No. 1 Enterprise of the Power Engineering Constfuction and Assembly Trust) on the basis of a project

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Underground electric conductors of very high voltage. .. A231/A126

worked out by the Institutul de Studii și Proiectări Energetice (Institute of Power Engineering Studies and Designs). The 2,000-m long cable is leading from the Dîmbovita River in northern direction to a 110/30/10-kv transformer substation located in the center of the consumer area. The cable used was a singleconductor cable with low-pressure oil circulation, a section of which is shown in Figure 16. The central channel has a diameter of 10 mm, the lead sheath a thickness of 1.9 mm, and the insulation a thickness of 8.5 mm. The installation level scheme of the underground cable is shown in Figure 17. The following factcrs have been taken into consideration in the selection of the track: use of the street section between the sidewalk margin and gutter, possible avoidance of streets with heavy streetcar traffic, avoidance of other 6- or 30-kv cable tracks The three single-conductor cables which form the three-phase channel, have been laid directly into the ground according to Figure 18. The channel is protected by 6-cm thick prefabricated concrete panels and is filled with selected earth of low thermal resistivity. The 2,000-m long track is formed of four sections separated by three sets of normal junction boxes. The constant-pressure oil reservoirs are located in the garret of the substation, whereas the variablepressure oil reservoirs have been installed in a semiclosed brick structure at the junction of the cable with the aerial. The laying has been started at the

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Underground electric conductors of very high voltage. .. A/231/A126

substation and was accomplished on the basis of the usual technological instructions, provided with special protection measures to avoid extra mechanical efforts. During the laying operation, the cable was maintained at a 0.3 kg/cm2 oil pressure. All operations, i.e., digging, dumping of the earth, marking the track section being under construction, traffic regulating operations, etc., have been organized to serve as a model for similar work on public roads of the capital. The terminal boxes were of the single-conductor type. The cable has been introduced into the pothead through a conical piece of aluminum, fixed to the pothead flange and well fastened to the cable. During the whole connecting operation, the cable was maintained under pressure. The usual type junction boxes have been accomplished in a very similar way. The cylindrical boxes were made of copper. The connection between the neighbouring conductors has been made of a copper piece, similar to the terminal bolt. The ditch into which the set of 3 junction boxes has been buried is 2 x 6 m and 1.8 m deep, and was lined with thick boards. The cable has again been maintained under constant pressure as in the case of the terminal box. The manufacture of the termination and junction boxes has been accomplished by a team of specialists. The laying of the first 110-kv underground cable in Bucharest has been well accomplished within the scheduled time. There are 6 graphs, 19 figures, 13 diagrams, 1 photo and

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Underground electric conductors of very high voltage. .. A/231/126

19 references: 4 Soviet-bloc and 15 non-Soviet-bloc.

Figure 16: Section through 110-kv single-conductor cable

I: central channel, II: insulation, impregnated paper, III: lead sheath, IV: PVC sheath, Vr copper conductor, VI: bands of carbon paper, VII: bands of metal-coated paper, VIII: bands of punb zinc-coated copper

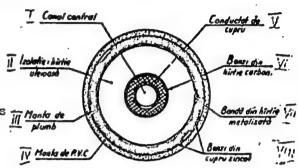


Fig. 16. Sectiune prin cablu cu circulație de ulei folosit la canalizarea 110 kV din flucurești.

Card 4/6

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VICOL, Pavel, ing. (Bucuresti); IONESCU, Gabriel, ing. (Bucuresti)

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The construction realization of the compressed air installations in the transforming stations and connections.

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VICOL, P., ing.

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Some observations in connection with the structure of epidphsis in aged birds and ruminants. p. 521.

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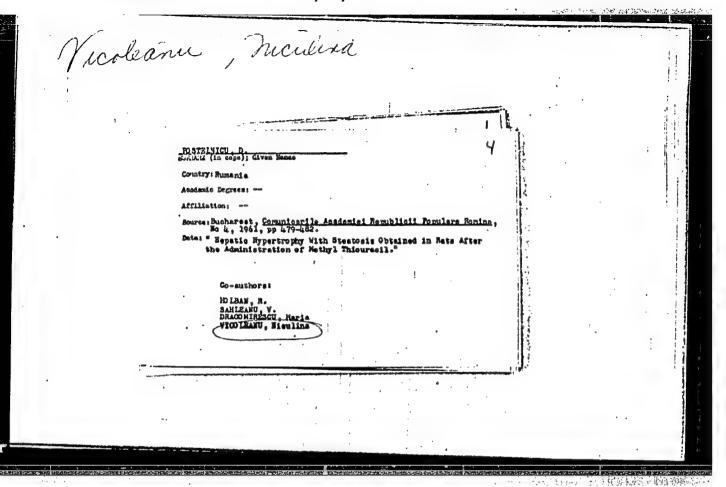
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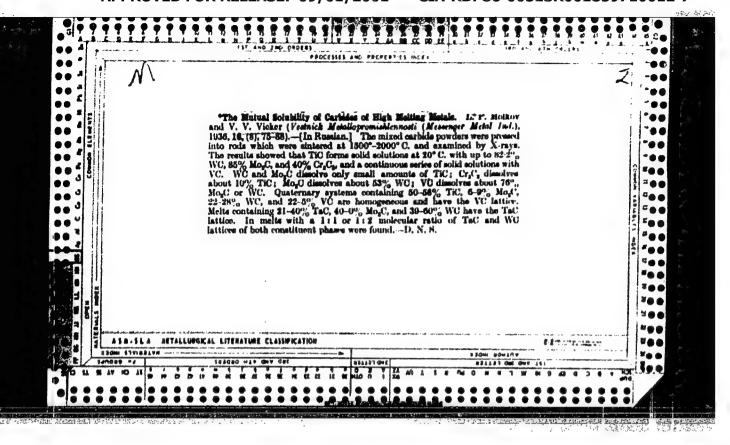
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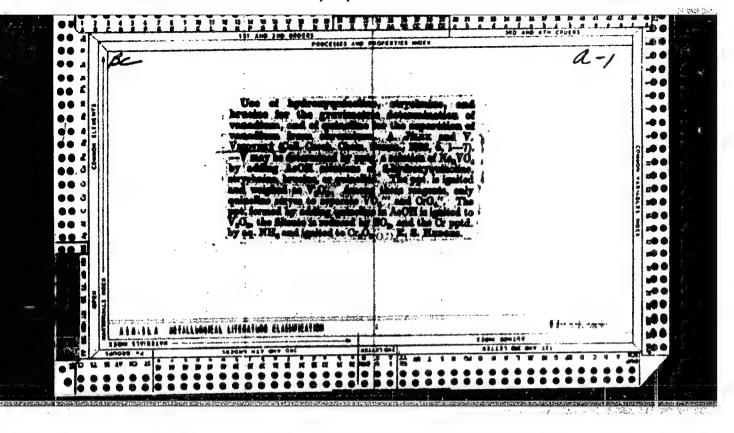
(REFLEX vasomotor, asymmetry of responses elicited from symmetrical areas)

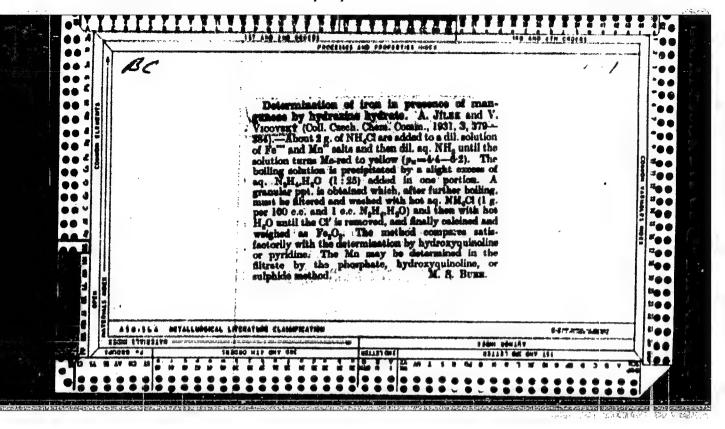
MADARASZ, 1.; OBAL, F.; VICSAY, Margit; TAKACS, O.

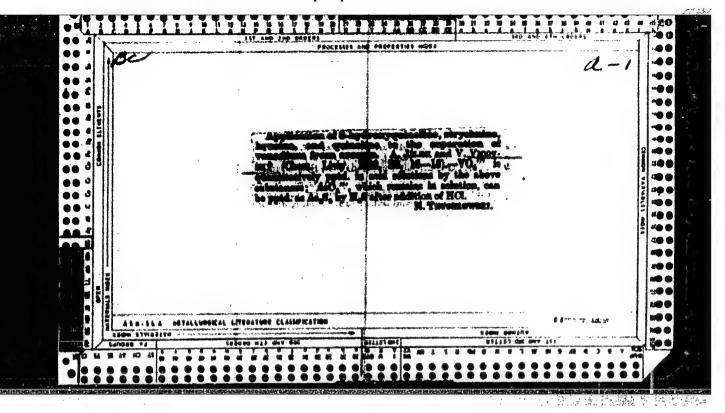
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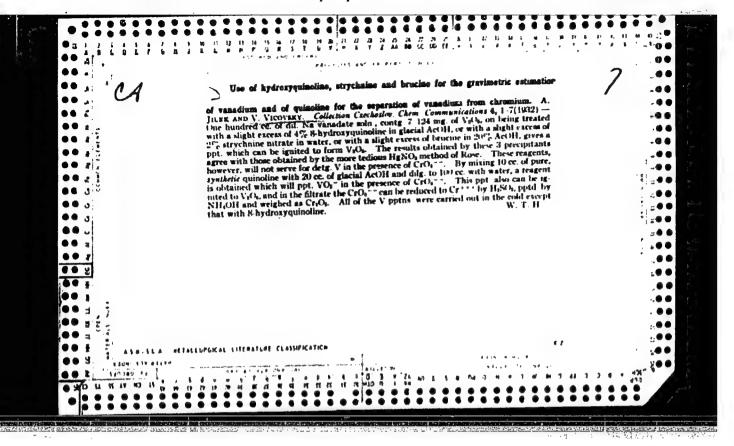
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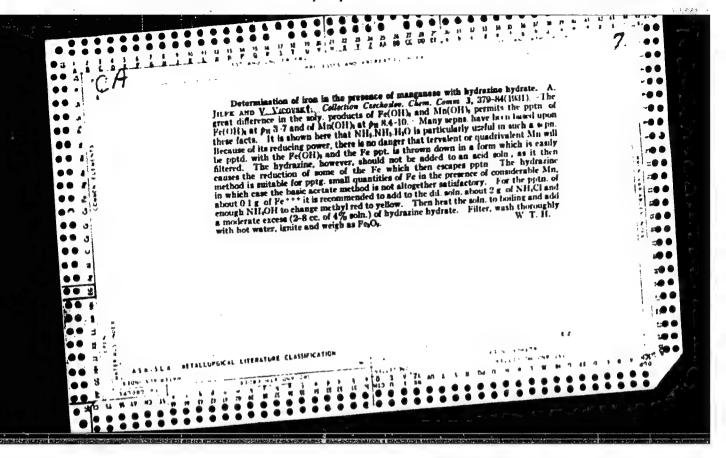












SZORADY, Istvan; VICSAY, Margit; OBAL, Ferenc

Effect of pantothenic acid on the sensitivity of the intestine to acetylcholine in rats. Kiserletes Orvostudomany 12 no.1: 75-79 J 160.

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(PANTOTHENIC ACID pharmacol) (ACETYLCHOLINE pharmacol) (INTESTINES pharmacol)

SZORADY, Istvan; SZ.-ne VICSAY, Margit; OBAL, Ferenc; PUSZTAI, Rozalia;

Data on the effect of pantothenic acid on the isolated intestine. Kiserl. orvostud. 14 no.3:281-286 Je 162.

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HUNGARY

OBAL, F., and VICSAY, M., of the Institute or Physiology, Medical University, Szeged [Original version not given].

"The Role of the Nervous System in the Adaptation of Oxygen Consumption to Hypoxia"

Budapest, Acta Physiologica Academize Scientiarum Hungaricae, Supplement to Vol 22, 1963; p 18.

Abstract [Authors' English summary, modified]: In rat experiments, in air centaining 8 to 10 percent 02 the oxygen consumption of the rat drops; on reverting to air, the hypoxic reaction does not take place. In the presence or indifferent stimulus, there is an immediate increase in 02 consumption. The organism adapts itself rapidly to repeated hypoxias combined with indifferent stimuli. The differences in reaction of the different animal species and of the individual animals are determined by the phylomand ontogenetical development of the nervous system, as well as by the acquired individual reactivity.

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L 33793-66 RO

ACC NR: AT6025181

SOURCE CODE: HU/2505/65/028/001/0065/0076

AUTHOR: Obal, Ferenc (Szeged); Vicsay, Hargit—Vichai, M. (Szeged); Madarasz, Istvan

ORG: Institute of Physiology, Medical University of Szeged (Szegedi Orvostudomanyi Egyetem, Elettani Intezet)

TITIE: Role of a central nervous mechanism in the acquired tolerance to the temperature-decreasing effect of histamine o Presented at the Hungarian Physiological Society Symposium on the "Early Manifestations of Conditioning" held in 1963/

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 28, no. 1, 1965, 65-76

TOPIC TAGS: pharmocology, hypothermia, central nervous system

ABSTRACT: When histamine is administered s.c. three times in succession at 2-3 hour intervals, rapid acquisition of tolerance to its temperature-decreasing effect occurs in the rat. On subsequent treatment with physiological saline, the body temperature does not change or is only slightly elevated. Following this, histamine causes again a steep fall in body temperature. A similar reaction can be seen in the decrease in oxygen consumption, caused by histamine. The tolerance to histamine is not suspended by saline if the latter is administered through an implanted intraperitoneal cannula. The hypothermic effect of histamine is significantly prolonged and the development of tolerance to it is delayed if the injection is Cord 1/2

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33793-66 ACC NR: AT6025182 made in a denorvated skin area where the stimulus complex which accompanies histamine administration is partly absent. The phenomenon of rapid acquisition of histamine tolerance is believed to be akin to the mechanism of habituation. The compensatory nervous activity, reinforced by the repeated injections which are accompanied by the same complex of stimuli, reduces the effect of the consecutive doses as is customary with stimuli which have a peripheral site of action, according to earlier investigations. An injection of the indifferent, saline solution may eventually bring this nervous mechanism of opposing effect to the surface although it tends to extinguish it: this extinction manifests itself in a sudden decrease in histamine tolerance with a reappearance of the response to histamine. The temperature-decreasing effect of carbachol persists after the development of histamine tolerance since the effect of carbachol is maintained through reflexes the result of which is similar to that elicited

efferent-side, or central, afferent-side site of action of the stimulus. Orig. art. has: 10 figures. Orig. art. in Eng. / JPRS: 33,500/
SUB CODE: 06 / SUBM DATE: 31Aug64 / ORIG REF: 008 / OTH REF: 015

by stimuli of the central site of action. The hypothermic response to repeated doses of carbachol does not weaken and the conditioned reflex evoked by the saline solution also effects a decrease in body temperature. The development of temporary connections manifests itself in an early decrease of the effect, in the case of histamine, and in an increase of the effect, in the case of carbachol. This difference is characteristic of the peripheral.

Cord 2/2

L 15518-66

ACC NR: AT6007370

SOURCE CODE: HU/2505/65/026/00X/0006/0006

AUTHOR: Madarasz, I.; Vicsay, Margit; Takacs, O.; Obal, F.

ORG: Institute of Physiology, Medical University of Szeged (Szegedi Orvostudomany)

TITIE: Reflex responses to hypoxia in young animals. [This paper was presented at the 29th Meeting of the Hungarian Physiological Society held in Szeged from 2 to 4 July. 1964]

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, Supplement, 1965, 6

TOPIC TAGS: hypoxia, rat, dog, conditioned reflex, biologic metabolism, nervous system

ABSTRACT:

periments, the changes in the reduction of the metabolic rate and the conditioned reflex response to hypoxia have been studied in rate and dogs 0-72 days old. It was found that up to about 20 days of age, the animals respond to repeated episodes of hypoxia with almost no change in 02 consumption and the conditioned reflex manifests itself with a decrease in 02, i.e. the change in the same direction as in the case of the unconditioned response. At

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ACC NR: AT6007370

around 20 days, O2 consumption oscillates in response to the conditioned stimulus, it is often biphasic, a decrease followed by an increase. After 20 days, the opposite conditioned reaction becomes predominant consisting in an increase in O2 consumption and it becomes more marked with advancing age. The results led to the conclusion that, parallel with the ontogenetic development of the nervous system, the vegetative balance of the organism is ensured to an increasing extent by a higher, corrective central nervous requestion. [JPRS]

SUB CODE: 06, 05 / SUBM DATE: none

Card 2/2